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Area: Advanced Materials for Energy Applications
Head of the Area: Prof. Joan Ramon Morante
Group: Solar Energy Materials and Systems, SEMS
Head of Group: Prof. Alejandro Pérez-Rodríguez

Position: Coordinator of wide band gap thin film photovoltaic technologies research line at the SEMS group

The group of Solar Energy Materials and Systems (SEMS) from the area of Advanced Materials for Energy announces an Experienced Research position available for a highly motivated candidate to work in the coordination of the Advanced Materials for Thin Film Photovoltaic Technologies research line at the SEMS group.

Activities: The candidate will carry out a multidisciplinary activity with the final aim of coordinating the tasks for the development of new advanced materials and concepts, including absorber synthesis, and solar cell devices fabrication and characterization for thin film chalcogenide photovoltaic technologies. The candidate will be in charge of the launching and consolidation of the research activities in the group in wide band-gap materials (oxides, chalcogenides), for advanced photovoltaic applications (tandem concepts, semi-transparent and transparent devices). Tasks involved in the position include: use of DC and DC-pulsed sputtering as well as thermal evaporation systems, use of conventional and rapid thermal annealing furnaces, fabrication and characterization of solar cell devices, fundamental characterization of materials (XRD, SEM, Raman, AFM, XRF, etc), transference of knowledge to scientific and industrial levels, coordination and preparation of project applications at national (Spanish) and International cooperative programs.

Requirements: Candidate must have a PhD degree in Chemistry, Physics, Material/Electronics Engineering or equivalent. Previous demonstrated experience in fabrication and characterization of Thin Film Chalcogenides Photovoltaic devices and in particular in chalcopyrite and kesterite technologies is strongly required. Publications at international scientific journals and experience in the participation in international cooperative research projects in these topics involving both research centres and companies will be also very well evaluated.

Proposed Jury:

Presidència	Titular	Prof. Alejandro Pérez-Rodríguez
Vocal 1	Titular	Dra. Teresa Andreu
Vocal 2	Titular	Prof. Jaume Esteve Tintó (CNM-CSIC)